

R307-506. Oil and Gas Industry: Storage Vessels.**R307-506-1. Purpose.**

R307-506 establishes requirements to control emissions of volatile organic compounds (VOCs) from storage vessels associated with oil and gas operations.

R307-506-2. Definitions.

"Modification to a well site" means;

- (1) a new well is drilled at an existing well site,
- (2) a well at an existing well site is hydraulically fractured, or
- (3) a well at an existing well site is hydraulically refractured.

"Storage Vessel" means storage vessel as defined in 40 CFR 60.5430a, Subpart OOOOa Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution, which is incorporated by reference in R307-210.

R307-506-3. Applicability.

(1) R307-506 applies to each storage vessel located at a well site as defined in 40 CFR 60.5430a Subpart OOOOa Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution.

(a) R307-506 does not apply to storage vessels that are subject to an approval order issued under R307-401-8.

R307-506-4. Storage Vessel Requirements.

(1) Thief hatches on storage vessels shall be kept closed and latched except during vessel unloading or other maintenance activities.

(2) A storage vessel or collection of storage vessels, that is in operation as of January 1, 2018, with a site-wide throughput of 8,000 barrels or greater of crude oil per year on a rolling 12-month basis shall comply with R307-506-4(2)(a) unless the exemption in R307-506-4(2)(b) applies.

(a) VOC emissions from storage vessels shall either be routed to a process unit where the emissions are recycled, incorporated into a product and/or recovered, or be routed to a VOC control device that is in compliance with R307-508.

(b) A storage vessel or collection of storage vessels shall be exempt from R307-506-4(2)(a) if VOC emissions are demonstrated to be less than four tons per year on a rolling twelve month basis by the following methods:

(i) VOC working and breathing losses shall be calculated using site-specific sampling data and the TANKS 4.09D Emission Estimation Software provided by the EPA.

(ii) VOC flash emissions shall be calculated using site-

specific sampling data and the Vasquez-Beggs Equation.

(iii) VOC emissions determined by an alternative method approved by the Director.

(3) Storage vessels that begin operations on or after January 1, 2018, are required to control VOC emissions in accordance with R307-506-4(2)(a) upon startup of operation for one year and then evaluate control requirements in accordance with R307-506-4(6).

(4) An owner or operator that is required to control emissions in accordance with R307-506-4(2) and R307-506-4(3) shall inspect at least once a month each closed vent system, including vessel openings, thief hatches, and bypass devices, for defects that can result in air emissions according to 40 CFR 60.5416a(c).

(a) If defects are discovered, the defects shall be corrected or repaired within 15 days of identification.

(5) Modification to a well site shall require a re-evaluation of site-wide throughput and/or emissions in accordance with R307-506-4(2).

(6) After one year of operation, controls may be removed when site-wide throughput is less than 8,000 barrels of crude oil on a rolling twelve-month basis or actual emissions are demonstrated to be less than four tons per year after one year of operation.

R307-506-5. Recordkeeping

(1) Records of thief hatch inspection shall be kept for three years.

(a) Records of thief hatch inspections shall include the date of the inspection, the status of the thief hatches, and the date of corrective action taken if required.

(2) Records of crude oil throughput shall be kept for three years and shall be determined on a monthly basis using the production data reported to the Utah Division of Oil, Gas, and Mining.

(3) Records of emission calculations, actual emissions, and site-specific sampling data used to determine applicability with R307-506-4(2)(b) shall be kept as long as the well site is in operation.

KEY: air pollution, oil, gas

Date of Enactment or Last Substantive Amendment: ~~[October 7, 2014]~~ 2017

Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)